

EN 55024: 1998 + A1: 2001 + A2: 2003
MEASUREMENT AND TEST REPORT

For

SLICAN SP. ZO.O

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Model: XL-2023ID

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1 General Description

1.1 Product Description for Equipment Under Test (EUT)

This measurement and test report has been compiled on behalf of the company *SLICAN SP. ZO.O* and their product model: XL-2023ID which will be henceforth in this report referred to as the EUT (Equipment Under Test). The EUT is a Telephone, it is powered through the telecom port.

1.2 Mechanical Description of EUT

The EUT is a Telephone of plastic construction that measures approximately **80 mm (L) x 70 mm (W) x 15 mm (H)** and weighs approximately **1 kg**.

**The data gathered are from a production sample provided by the manufacturer, serial number B1603, assigned by BACL*

1.3 EUT Photo



Please see additional photos in exhibit C

1.4 Objective

This report is prepared on behalf of *SLICAN SP. ZO.O* in accordance with EN 55024: 1998 + A1: 2001 + A2: 2003 for Information Technology Equipment – Immunity Characteristics – Limits and Methods of Measurements.

The objective is to determine compliance in accordance with EN 55024: 1998 + A1: 2001 + A2: 2003 immunity requirements for Information Technology Equipment.

1.5 Related Submittal(s)/Grant(s)

No related submittals.

1.6 Test Methodology

All measurements contained in this report were conducted in accordance with EN 55024: 1998 + A1: 2001 + A2: 2003, European Standard for Information Technology Equipment – Immunity Characteristics – Limits and Methods of Measurement.

All immunity test measurements were performed at Bay Area Compliance Laboratories Corp.

1.7 Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in the field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, antenna factor calibration, antenna directivity, antenna factor variation with height, antenna phase center variation, antenna factor frequency interpolation, measurement distance variation, site imperfections, mismatch (average), and system repeatability.

Based on NIS 81, The Treatment of Uncertainty in EMC Measurements, the values ranging from ± 2.0 dB for Conducted Emissions tests and ± 4.0 dB for Radiated Emissions tests are the most accurate estimates pertaining to uncertainty of EMC measurements at BACL Corp.

Detailed instrumentation measurement uncertainties can be found in BACL Corp. report QAP-018.

1.8 Test Facility

The test site used by BACL Corp. to collect immunity test measurement data is located at its facility in Sunnyvale, California, USA.

The test site at BACL Corp. has been fully described in reports submitted to the Federal Communication Commission (FCC) and Voluntary Control Council for Interference (VCCI). The details of these reports have been found to be in compliance with the requirements of Section 2.948 of the FCC Rules on February 11, 1997 and December 10, 1997 and Article 8 of the VCCI regulations on December 25, 1997. The facility also complies with the test methods and procedures set forth in ANSI C63.4-2003 & TIA/EIA-603.

The Federal Communications Commission and Voluntary Control Council for Interference have the reports on file and they are listed under FCC registration number: 90464 and VCCI Registration No.: C-2698 and R-2463. The test site has been approved by the FCC and VCCI for public use and is listed in the FCC Public Access Link (PAL) database.

Additionally, BACL Corp. is a National Institute of Standards and Technology (NIST) accredited laboratory under the National Voluntary Laboratory Accredited Program (Lab Code 200167-0). The current scope of accreditations can be found at <http://ts.nist.gov/Standards/scopes/2001670.htm>

2 Performance Criteria

2.1 As per EN 55024 §7: Performance Criteria

The manufacturer has the obligation to express the performance criteria in terms which relate to the performance of his specific product when used as intended.

The following performance criteria are applicable, and shall only be evaluated when the functions referred to are implemented.

2.2 General Performance Criteria

Examples of functions defined by the manufacturer to be evaluated during testing include, but are not limited to, the following:

- essential operational modes and states;
- tests of all peripheral access (hard disks, floppy disks, printers, keyboard, mouse, etc.);
- quality of software execution;
- quality of data display and transmission;
- quality of speech transmission.

2.2.1 Performance Criterion A

The equipment shall continue to operate as intended without operator intervention. **No** degradation of performance or loss of function is allowed below a performance level specified by the manufacturer when the equipment is used as intended. The performance level may be replaced by a permissible loss of performance. If the minimum performance level or the permissible performance loss is not specified by the manufacturer, then either of these may be derived from the product description and documentation, and by what the user may reasonably expect from the equipment if used as intended.

2.2.2 Performance Criterion B

After the test, the equipment shall continue to operate as intended without operator intervention. No degradation of performance or loss of function is allowed, after the application of the phenomena below a performance level specified by the manufacturer, when the equipment is used as intended. The performance level may be replaced by a permissible loss of performance.

During the test, degradation of performance is allowed. However, no change of operating state or stored data is allowed to persist after the test.

If the minimum performance level (or the permissible performance loss) is not specified by the manufacturer, then either of these may be derived from the product description and documentation, and by what the user may reasonably expect from the equipment if used as intended.

2.2.3 Performance Criterion C

Loss of function is allowed, provided the function is self-recoverable, or can be restored by the operation of the controls by the user in accordance with the manufacturer's instructions. Functions, and/or information stored in non-volatile memory, or protected by a battery backup, shall not be lost.

3 EUT TEST CONFIGURATION

3.1 Justification

The EUT was configured for testing according to EN 55024: 1998 + A1: 2001 + A2: 2003 Standard.

3.2 EUT Exercise Software

The software to exercise the EUT was provided by the client.

3.3 Equipment Modifications

No modification of the EUT was necessary to meet testing requirements.

3.4 Special Equipment

No Special Equipment was used during testing.

3.5 Local Support Equipment

	Description	Model	Serial Number
PSTN Phone	Telephone 1	-	-
PSTN Phone	Telephone 2	-	-

3.6 Printed Circuit Boards (PCBs) installed in the EUT

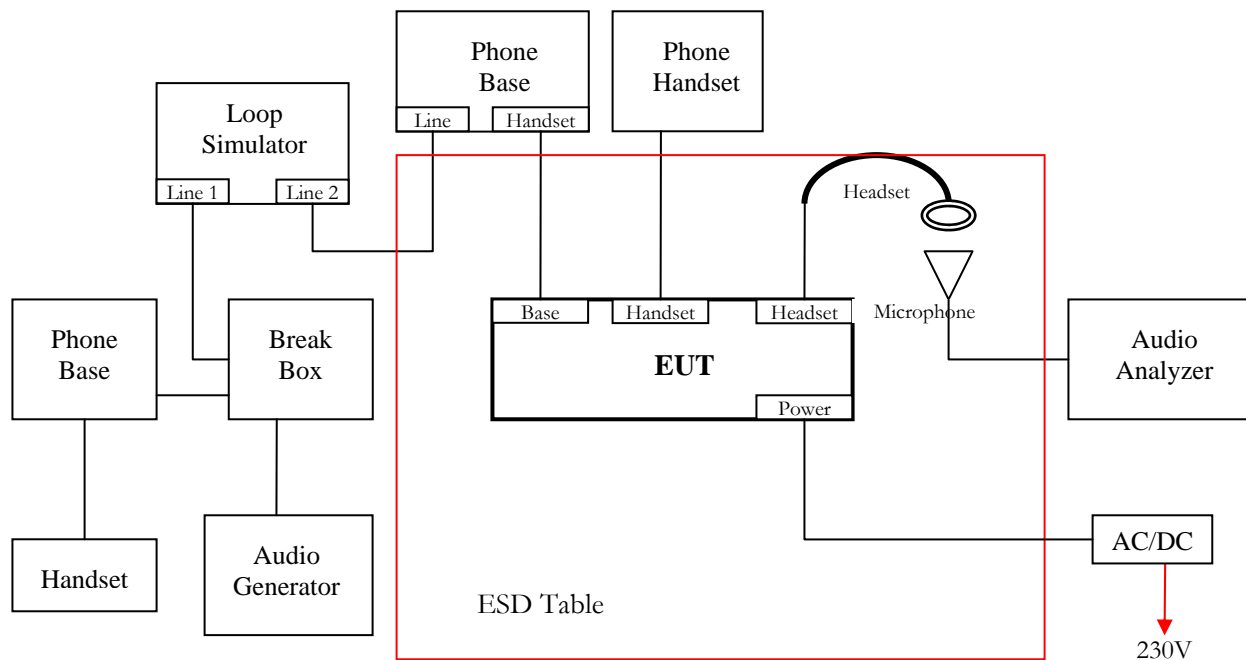
Manufacturer	Description	PCB Number
Xingtel	PCB 1	-
Xingtel	PCB 2	-

3.7 External I/O Cabling List and Details

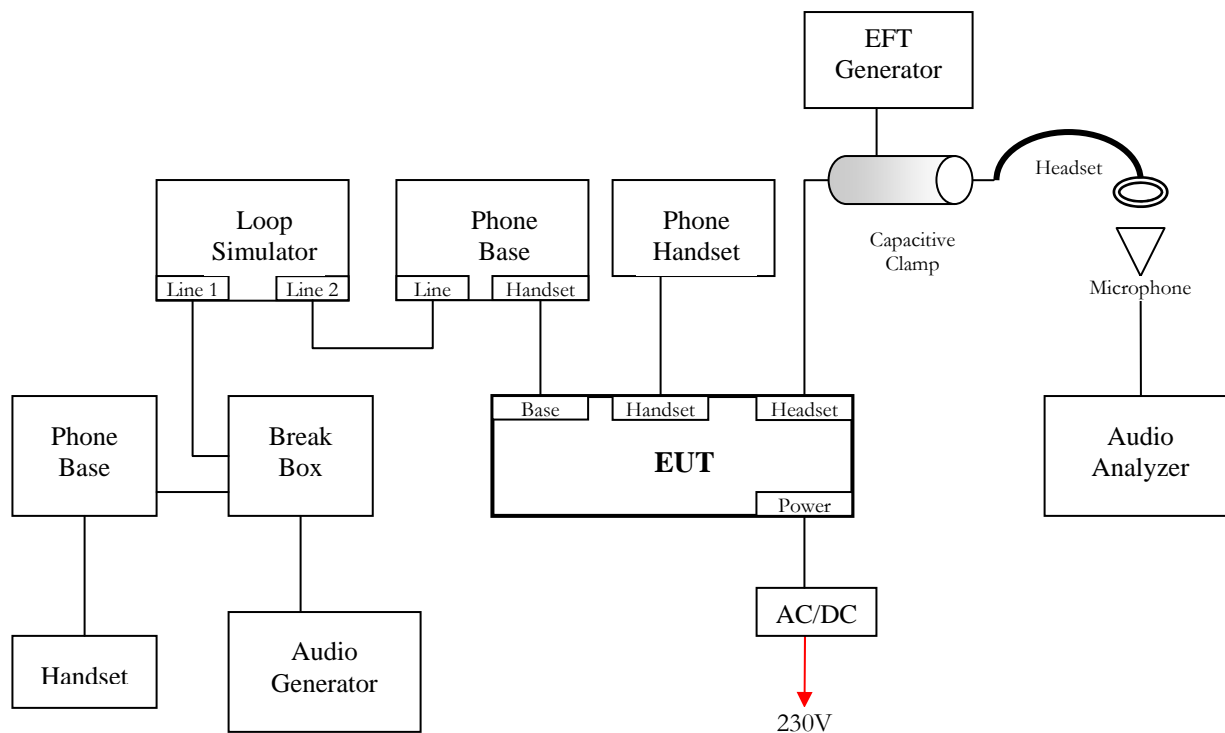
Cable Description	Length (M)	From	To
RJ11	1	EUT	Base-Phone
RJ11	1	EUT	Hand set

3.8 Test Setup Block Diagram

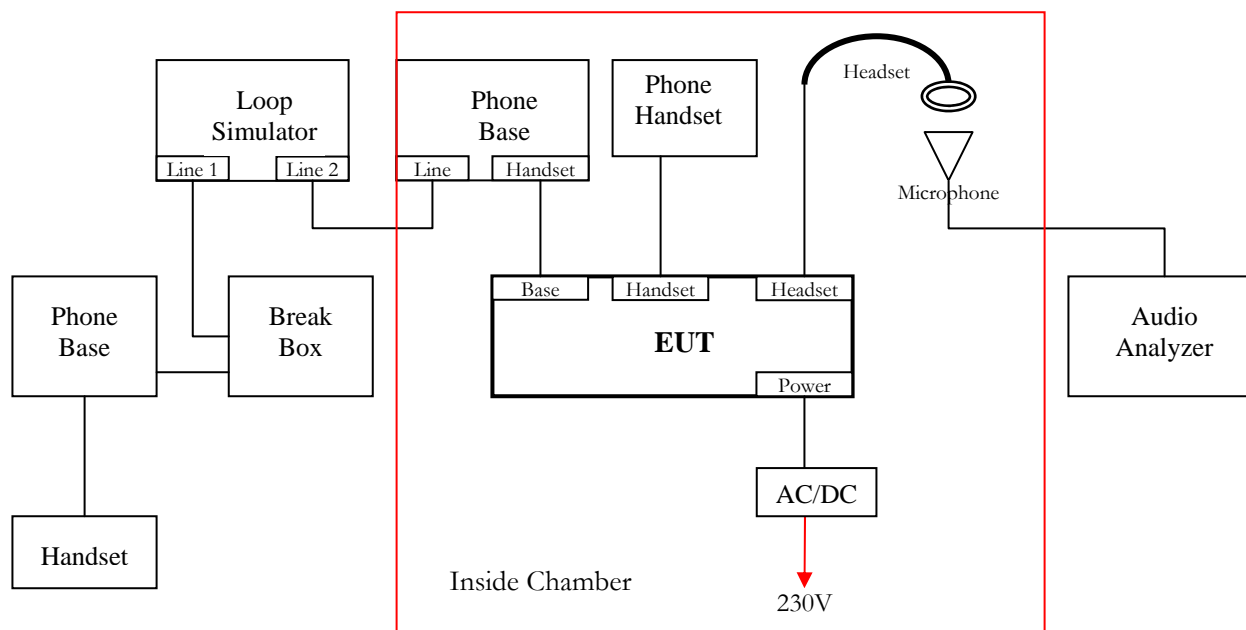
3.8.1 Electrostatic Discharge (EN 61000-4-2)



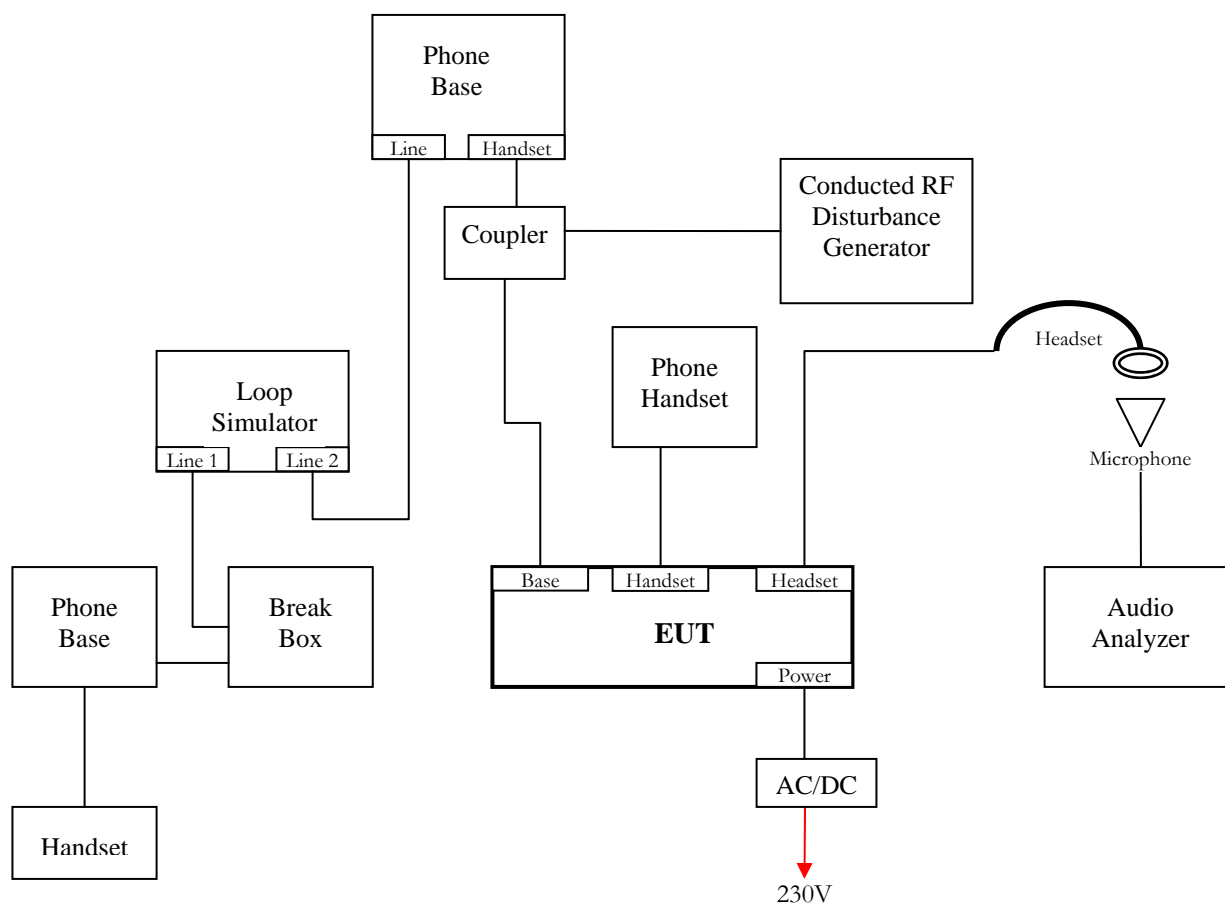
3.8.2 Electrical Fast Transients Signal Line (EN 61000-4-4)



3.8.3 Continuous Radiated Disturbances (EN 61000-4-3)



3.8.4 Continuous Conducted Disturbances Signal Line (EN 61000-4-6)



4 Summary of Test Results

Standards	Description Of Test	Result
EN 55024 §4.2.1	Electrostatic Discharges EN 61000-4-2	Compliant
EN 55024 §4.2.2	Electrical Fast Transients EN 61000-4-4	Compliant
EN 55024 §4.2.3.1	Continuous Radiated Disturbances EN 61000-4-3	Compliant
EN 55024 §4.2.3.2	Continuous Conducted Disturbances EN 61000-4-6	Compliant
EN 55024 §4.2.4	Power-frequency Magnetic Fields EN 61000-4-8	N/R
EN 55024 §4.2.5	Surges EN 61000-4-5	N/R
EN 55024 §4.2.6	Voltage Dips and Interruptions EN 61000-4-11	N/R

5 EN 55024 §4.2.1 – Electrostatic Discharge EN 61000-4-2

5.1 Applicable Standard

5.1.1 As per EN 61000-4-2 §5: Test Levels

The preferential range of test levels for the ESD test is given in table 1.

Testing shall also be satisfied at the lower levels given in table 1.

Details concerning the various parameters which may influence the voltage level to which the human body may be charged are given in clause A.2 of annex A. Clause A.4 also contains examples of the application of the test levels related to environmental (installation) classes.

Contact discharge is the preferred test method. Air discharges shall be used where contact discharge cannot be applied. Voltages for each test method are given in tables 1a and 1b. The voltages shown are different for each method due to the differing methods of test. It is not intended to imply that the test severity is equivalent between test methods.

Further information is given in clauses A.3, A.4 and A.5 of annex A.

Table 1 – Test levels

1a – Contact discharge		1b – Air discharge	
Level	Test voltage kV	Level	Test voltage kV
1	2	1	2
2	4	2	4
3	6	3	8
4	8	4	15
x ¹⁾	Special	x ¹⁾	Special
¹⁾ "x" is an open level. The level has to be specified in the dedicated equipment specification. If higher voltages than those shown are specified, special test equipment may be needed.			

5.2 Electrostatic Discharge Test System

The Schaffner NSG 435 ESD used for testing, is capable of applying Electrostatic Discharges in both contact discharge modes to 4 kV and air discharge modes to 8 kV in both positive and negative polarities, in accordance with EN 61000-4-2 EMC testing standard.

5.3 Electrostatic Discharge Measurement Uncertainty

The measurement uncertainty with a 95% confidence factor has determined that the applied voltage has a maximum variance of $\pm 5\%$ of the stated applied value.

5.4 Application of Electrostatic Discharge

The test was conducted in the following order: Air Charge, Direct Contact Discharge, Indirect Contact Horizontal Coupling Plane Discharge, and Indirect Contact Vertical Coupling Plane Discharge. The Electrostatic Discharge test levels were set and discharges for the different test modes were set appropriately. The Electrostatic Discharge is applied to the conductive surface of the EUT, and along all seams and control surfaces on the EUT. When a discharge occurs and an error is caused, the type of error, discharge level and location is recorded.

5.5 Environmental Conditions

Temperature:	19° C
Relative Humidity:	42%
ATM Pressure:	1012 mbar

**Testing was performed by Amanuel Hagos on 2008-01-21*

5.6 Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date
Schaffner	ESD Simulator	NSG 435	5255	2006-03-03*

* Two year calibration cycle.

Statement of Traceability: BACL Corp. attests that all calibrations have been performed according to NVLAP requirements, traceable to the NIST.

5.7 Electrostatic Discharge Test Data (EN 61000-4-2)

5.7.1 Table 1: Electrostatic Discharge (Air Charge)

EN 61000-4-2 Test Points	Test Levels (kV)									
	-2	+2	-4	+4	-6	+6	-8	+8	-15	+15
Front Side	A	A	A	A	-	-	A	A	-	-
Top Side	A	A	A	A	-	-	A	A	-	-
Rear Side	A	A	A	A	-	-	A	A	-	-
Left Side	A	A	A	A	-	-	A	A	-	-
Right Side	A	A	A	A	-	-	A	A	-	-

5.7.2 Table 2: Electrostatic Discharge (Direct Contact)

EN 61000-4-2 Test Points	Test Levels (kV)									
	-2	+2	-4	+4	-6	+6	-8	+8	-15	+15
Bottom Side (Screw)	A	A	A	A	-	-	-	-	-	-

5.7.3 Table 3: Electrostatic Discharge (Indirect Contact HCP)

EN 61000-4-2 Test Points	Test Levels (kV)									
	-2	+2	-4	+4	-6	+6	-8	+8	-15	+15
Front Side	A	A	A	A	-	-	-	-	-	-
Bottom Side	A	A	A	A	-	-	-	-	-	-
Rear Side	A	A	A	A	-	-	-	-	-	-
Left Side	A	A	A	A	-	-	-	-	-	-
Right Side	A	A	A	A	-	-	-	-	-	-

5.7.4 Table 4: Electrostatic Discharge (Indirect Contact VCP)

EN 61000-4-2 Test Points	Test Levels (kV)									
	-2	+2	-4	+4	-6	+6	-8	+8	-15	+15
Front Side	A	A	A	A	-	-	-	-	-	-
Rear Side	A	A	A	A	-	-	-	-	-	-
Left Side	A	A	A	A	-	-	-	-	-	-
Right Side	A	A	A	A	-	-	-	-	-	-

Note:

- A ----- Performance Criteria A
- B ----- Performance Criteria B
- C ----- Performance Criteria C
- ----- Not Applicable

The EUT was subjected to Electrostatic Discharge Test System required by EN 55024: 1998 + A1: 2001 + A2: 2003 and all lower levels specified by EN 61000-4-2.

6 EN 55024 §4.2.2 – Electrical Fast Transients EN 61000-4-4

6.1 Applicable Standard

6.1.1 As per EN 61000-4-4 §5: Test Levels

The preferred test levels for the electrical fast transient test, applicable to power, ground, signal and control ports of the equipment are given in Table 1.

Table 1 – Test levels

Open circuit output test voltage and repetition rate of the impulses				
Level	On power port, PE		On I/O (input/output) signal, data and control ports	
	Voltage peak kV	Repetition rate kHz	Voltage peak kV	Repetition rate kHz
1	0,5	5 or 100	0,25	5 or 100
2	1	5 or 100	0,5	5 or 100
3	2	5 or 100	1	5 or 100
4	4	5 or 100	2	5 or 100
X ^a	Special	Special	Special	Special
NOTE 1 Use of 5 kHz repetition rates is traditional; however, 100 kHz is closer to reality. Product committees should determine which frequencies are relevant for specific products or product types.				
NOTE 2 With some products, there may be no clear distinction between power ports and I/O ports, in which case it is up to product committees to make this determination for test purposes.				
^a "X" is an open level. The level has to be specified in the dedicated equipment specification.				

These open-circuit output voltages will be displayed on the EFT/B generator. For selection of levels, see Annex B.

6.2 Electrical Fast Transients Test System

A Haefely Ecompact4 Burst, Surge, and Voltage Interruptions Generator is used for all testing. It is capable of applying fast transients to the AC line at any phase angle with respect to the AC line voltage wave form and to attached cables via a capacitive coupling clamp in accordance with the EN 61000-4-4: 1995 basic EMC publication.

6.3 Electrical Fast Transients Measurement Uncertainty

The measurement uncertainty with a 95% confidence factor has determined that the applied field has an expanded uncertainty value of 1.97.

6.4 Application of Electrical Fast Transients

The EUT was arranged for Power Line Coupling and for I/O Line Coupling through a capacitive clamp, where applicable. (Note: The I/O coupling test using a capacitive clamp is performed on the I/O interface cables that are longer in length than 3 meters.) A metal ground plane 2.4 meter by 2.0 meter was placed between the floor and the table and is connected to the earth by a 2.0 meter ground rod. The ground rod is connected to the test facility's electrical earth.

6.5 Environmental Conditions

Temperature:	19° C
Relative Humidity:	42%
ATM Pressure:	1012 mbar

**Testing was performed by Amanuel Hagos on 2008-01-21*

6.6 Test Equipment List

Manufacturer	Description	Model	Serial Number	Calibration Date
Haefely	Burst, Surge, & Voltage Interruption Generator	Ecompact 4	154978	2007-02-13
Schnaffer	CDN	8014	136	N/R

***Statement of Traceability: BACL Corp.** attests that all calibrations or verifications have been performed according to NVLAP requirements, traceable to the NIST.

6.7 Electrical Fast Transient Test Data (EN 61000-4-4)

EN61000-4-4 Test Points	Test Levels (kV)							
	+0.25	-0.25	+0.5	-0.5	+1.0	-1.0	+2.0	-2.0
Signal Line	-	-	A	A	-	-	-	-

Note: A ----- Performance Criteria A
 B ----- Performance Criteria B
 C ----- Performance Criteria C
 - ----- Not Applicable

The EUT was subjected to Electrical Fast Transients Tests required by EN 55024: 1998 + A1: 2001 + A2: 2003 and all lower levels specified in EN 61000-4-4.

7 EN 55024 §4.2.3.1 – Continuous Radiated Disturbances EN 61000-4-3

7.1 Applicable Standard

7.1.1 As per EN 61000-4-3 §5: Test Levels

The preferential range of test levels is given in table 1.

Frequency range: 80 MHz to 1 000 MHz.

Table 1 – Test levels

Level	Test field strength V/m
1	1
2	3
3	10
x	Special
NOTE x is an open test level. This level may be given in the product specification.	

Table 1 gives details of the field strength of the unmodulated signal. For testing of equipment, this signal is 80 % amplitude modulated with a 1 kHz sinewave to simulate actual threats (see figure 1). Details of how the test is performed are given in clause 8.

NOTE 1 Product committees may decide to choose a lower or higher transition frequency than 80 MHz between IEC 61000-4-3 and IEC 61000-4-6 (see annex H).

NOTE 2 Product committees may select alternative modulation schemes.

NOTE 3 IEC 61000-4-6 also defines test methods for establishing the immunity of electrical and electronic equipment against radiated electromagnetic energy. It covers frequencies below 80 MHz.

7.2 Continuous Radiated Disturbances Test System

HP 8648C signal generator and a CMX5001 power amplifier are used to provide a signal at the appropriate power and frequency to a biconilog antenna to obtain the required electromagnetic field at the position of the EUT in accordance with the EN 61000-4-3 basic EMC publication.

7.3 Continuous Radiated Disturbances Measurement Uncertainty

The measurement uncertainty with a 95 % confidence factor has determined that the applied field has an expanded uncertainty value of 1.97. This yields an uncertainty of 0.15 V (rms) in the applied filed levels.

7.4 Application of Continuous Radiated Disturbances

The electromagnetic field is established at the front edge of the EUT. The frequency range is swept from 80 to 1000 MHz using a power level necessary to obtain a 3 volt/meter, 1 kHz AM sine wave modulated at 80% depth, field directed at the EUT. The test is performed with the most susceptible side of the EUT facing the field-generating antenna. If an error is detected, the field is reduced until the error is not repeatable; the field is then manually increased until the error begins to occur. At this threshold level, the frequency and error created are noted before continuing the scan.

Selection Frequencies: 80, 120, 145, 160, 230, 375, 435, 460, 600, 814 and 835 MHz ($\pm 1\%$)

7.5 Environmental Conditions

Temperature:	19° C
Relative Humidity:	42%
ATM Pressure:	1012 mbar

*Testing was performed by Amanuel Hagos on 2008-01-21

7.6 Test Equipment List

Manufacturer	Description	Model	Serial Number	Calibration Date
IFI Instruments	Amplifier	CMX5001	2194-1296	N/R
HP	Signal Generator	8648C	3347M00143	2006-09-13*
Sunol Sciences	System Controller	SC99V	110031	N/R
Sunol Sciences	Turn-Table	SM46C	N/A	N/R
Sunol Sciences	Tower, Antenna	TWR99-4	11003-3	N/R
Sunol Science	Combination Antenna	JB3 Antenna	A020106-3	2007-03-05
ETS Lindgren	Isotropic Electric Field Probe	HI-4450	51958	2007-04-18

*Equipment is subjected to two year calibration cycles

Statement of Traceability: **BACL Corp.** attests that all calibrations or verifications have been performed according to NVLAP requirements, traceable to the NIST.

7.7 Continuous Radiated Disturbances Test Data (EN 61000-4-3)

Frequency Range (MHz)	Front Side (3 V/m)		Rear Side (3 V/m)		Left Side (3 V/m)		Right Side (3 V/m)	
	VERT	HORI	VERT	HORI	VERT	HORI	VERT	HORI
80-1000	A	A	A	A	A	A	A	A
Selection Frequencies ($\pm 1\%$) 80, 120, 145, 160, 230, 375 435, 460, 600, 814, 835	A	A	A	A	A	A	A	A

Note:

- A ----- Performance Criteria A
- B ----- Performance Criteria B
- C ----- Performance Criteria C
- ----- Not Applicable

The EUT was subjected to a 3-volt/meter, 80% Amplitude modulated, 1 kHz sine wave field as required by EN 55024: 1998 + A1: 2001 + A2: 2003 and all lower levels specified by EN 61000-4-3.

8 EN 55024 §4.2.3.2 – Continuous Conducted Disturbance EN 61000-4-6

8.1 Applicable Standard

8.1.1 As per EN 61000-4-6 §5: Test Levels

No tests are required for induced disturbances caused by electromagnetic fields coming from intentional RF transmitters in the frequency range 9 kHz to 150 kHz.

Table 1 – Test levels

Frequency range 150 kHz – 80 MHz		
Level	Voltage level (e.m.f.)	
	U_0 dB(μV)	U_0 V
1	120	1
2	130	3
3	140	10
X *	Special	
* X is an open level.		

The open-circuit test levels (e.m.f.) of the unmodulated disturbing signal, expressed in r.m.s., are given in Table 1. The test levels are set at the EUT port of the coupling devices, see 6.4.1. For testing of equipment, this signal is 80 % amplitude modulated with a 1 kHz sine wave to simulate actual threats. The effective amplitude modulation is shown in Figure 4. Guidance for selecting test levels is given in Annex C.

8.2 Continuous Conducted Disturbance Test

An EM Test CWS500C Continuous Wave Simulator was used to perform the test. The EUT was subjected to 3 V rms, AM modulated (1 kHz sinewave at 80% depth), conducted signals from 0.15 MHz to 80 MHz. CDN coupling and de-coupling networks were utilized to inject the signal onto the power line using the 6.2.2 method. The clamp injection method of 6.2.3 was used to inject the signal onto the I/O lines.

8.3 Continuous Conducted Disturbance Measurement Uncertainty

The measurement uncertainty with a 95 % confidence factor has determined that the applied voltage level is within 0.25 V of stated value.

8.4 Application of Continuous Conducted Disturbance

The EUT was setup according to the EN 61000-4-6 and the test shall be performed with the test generator connected to each of the coupling and decoupling devices in turn while the other non-excited RF input ports of the coupling devices are terminated by a 50 Ω load resistor. The frequency range is 150 kHz to 80 MHz.

Selection Frequencies: 0.2, 1, 7.1, 13.56, 21, 27.12, 40.68 and 52 MHz ($\pm 1\%$)

8.5 Environmental Conditions

Temperature:	19° C
Relative Humidity:	42%
ATM Pressure:	1012 mbar

**Testing was performed by Amanuel Hagos on 2008-01-21*

8.6 Test Equipment List

Manufacturer	Description	Model	Serial Number	Calibration Date
A.R.A	Coupling and de-coupling networks	CDN/M-3-16/A	1001	2007-05-12
EM Test	Continuous Wave Simulator	CWS500C	309338	2007-06-14

** Statement of Traceability: BACL Corp.* attests that all calibrations or verifications have been performed according to NVLAP requirements, traceable to the NIST.

8.7 Continuous Conducted Disturbance Test Data (EN 61000-4-6)

Signal Line

Modulation: Amplitude, 80%, 1 kHz sine wave

Severity Level: 3 Vrms

8.7.1 Signal Line

Level	Voltage Level (e.m.f.) U_0	Pass	Fail
2	3 Vrms	A	-

Note:

- A ----- Performance Criteria A
- B ----- Performance Criteria B
- C ----- Performance Criteria C
- ----- Not Applicable

The EUT was subjected to a 3-volt/meter, 80% Amplitude modulated, 1 kHz sine wave field as required by EN 55024: 1998 + A1: 2001 + A2: 2003 and all lower levels specified by EN 61000-4-6.

9 EN 55024 §4.2.5 – Surges EN 61000-4-5

Test not required, EUT does not connect to AC Mains.

10 EN 55024 §4.2.6 – Voltage Dips and Interruptions EN 61000-4-11

Test Not Required, EUT does not connect to the AC Mains.

11 EXHIBIT A - CE PRODUCT LABELING REQUIREMENTS

1. The CE conformity marking must consist of the initials 'CE' taking the following form:



If the CE marking is reduced or enlarged, the proportions given in the above graduated drawing must be respected.

2. The CE marking must have a height of at least 5 mm except where this is not possible on account of the nature of the apparatus.
3. The CE marking must be affixed to the product or to its data plate. Additionally it must be affixed to the packaging, if any, and to the accompanying documents.
4. The CE marking must be affixed visibly, legibly, and indelibly.
5. The equipment class identifier must take a form to be decided by the Commission in accordance with the procedure laid down in Article 14.

Where appropriate it must include an element intended to provide information to the user that the apparatus makes use of radio frequency bands where their use is not harmonized throughout the Community.

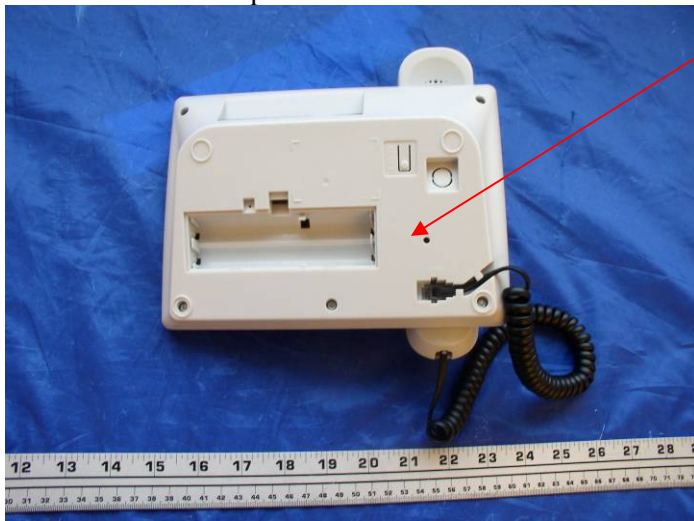


It must have the same height as the initials 'CE'

Specifications: Text is black or white in color and is left justified. Labels are printed in indelible ink on permanent adhesive backing or silk-screened and shall be affixed at a conspicuous location on the EUT. The label can not be positioned on a removable portion of the EUT (e.g. battery cover).

11.1 Proposed Label Location on EUT

EUT Back View/ Proposed CE Label Location



12 Exhibit B – Test Setup Photographs

12.1 Electrostatic Discharge (EN 61000-4-2)



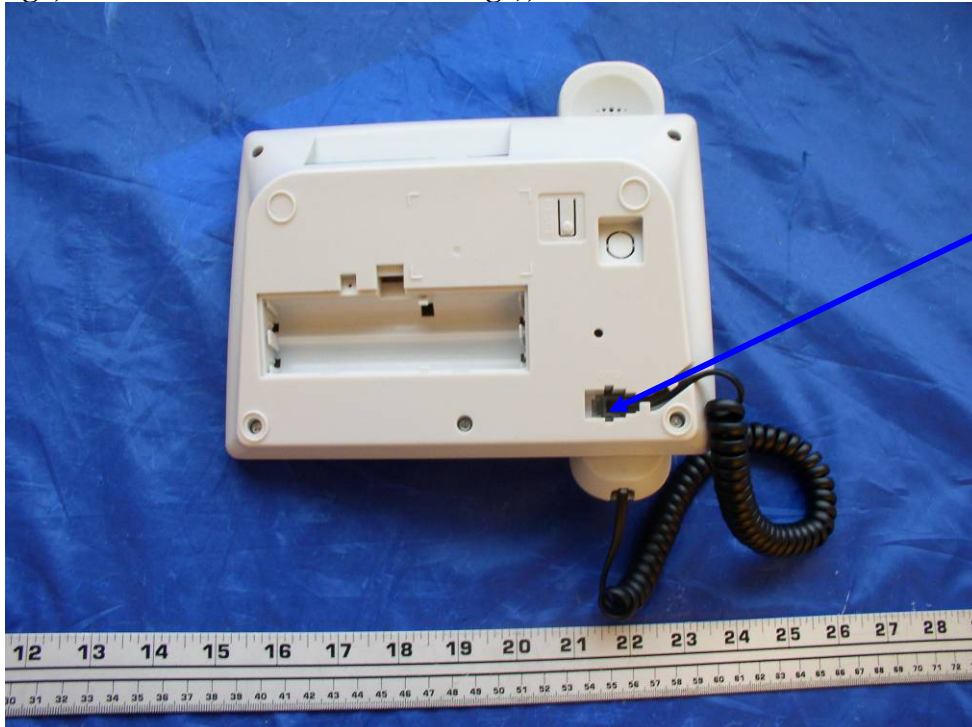
12.2 Electrostatic Discharge (EN 61000-4-2), The Application Points (**RED LINE**: Air Discharge; **BLUE LINE** : Contact Discharge), View 1



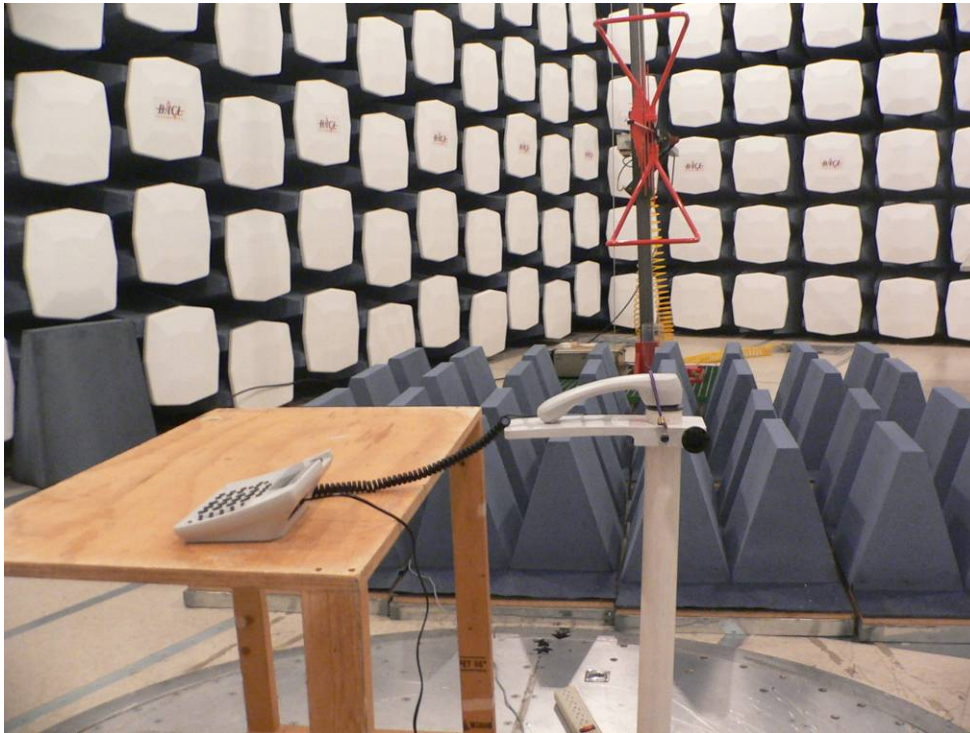
12.3 Electrostatic Discharge (EN 61000-4-2), The Application Points (RED LINE**: Air Discharge; **BLUE LINE** : Contact Discharge), View 2**



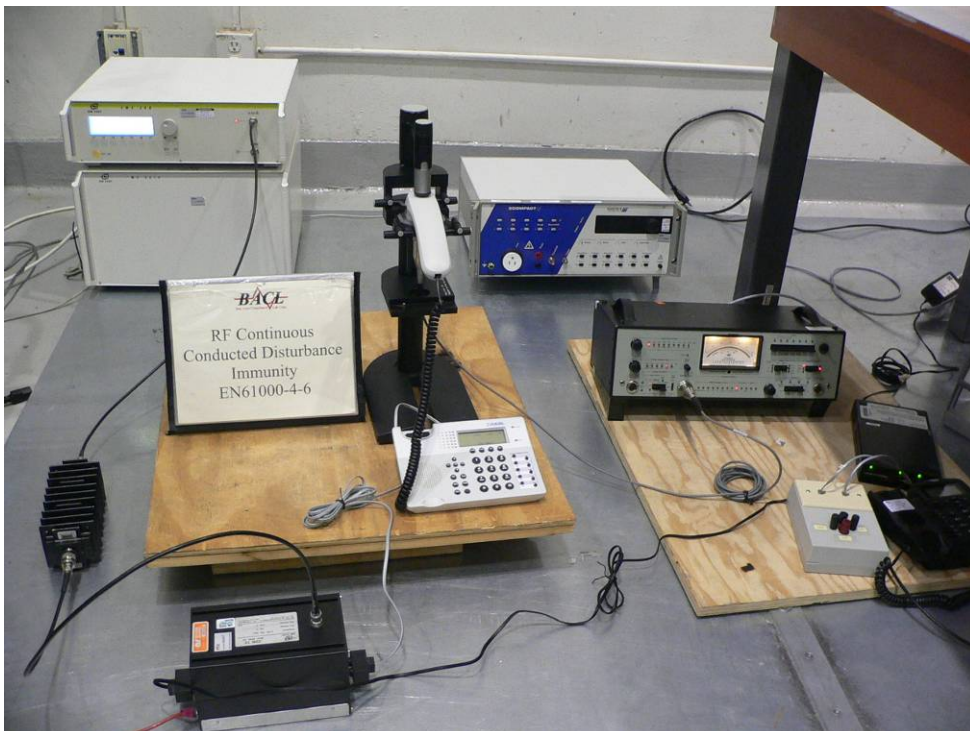
12.4 Electrostatic Discharge (EN 61000-4-2), The Application Points (RED LINE**: Air Discharge; **BLUE LINE** : Contact Discharge), View 3**



12.7 Continuous Radiated Disturbances (EN 61000-4-3) Back View



12.8 Continuous Conducted Disturbances (EN 61000-4-6), Signal Line



13 Exhibit C – EUT Photographs

13.1 EUT External Top View



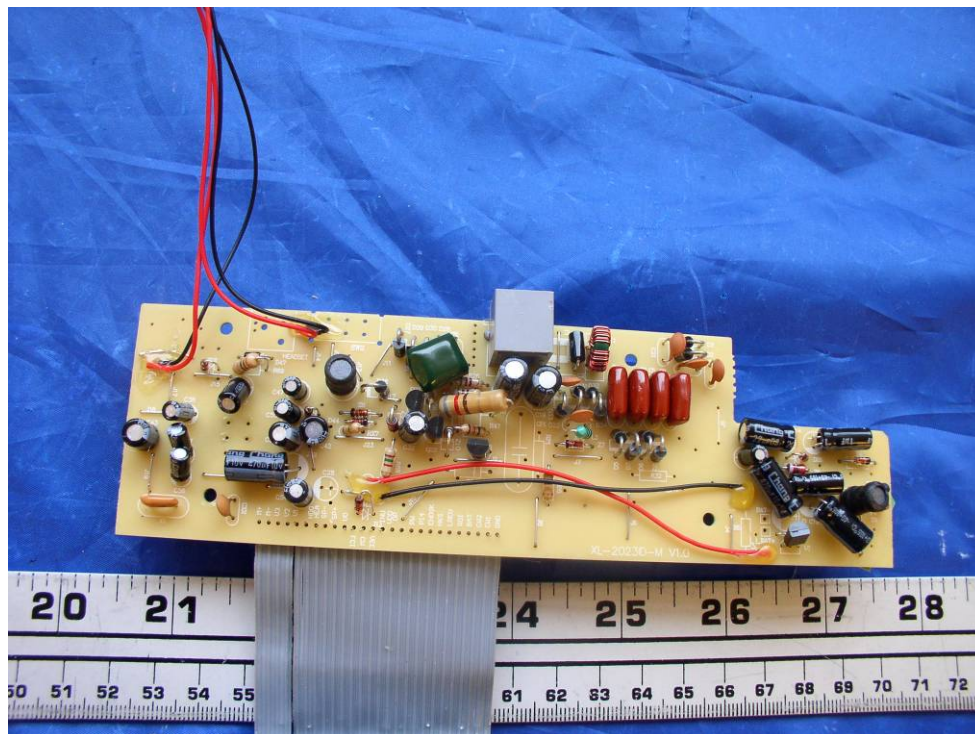
13.2 EUT Side View



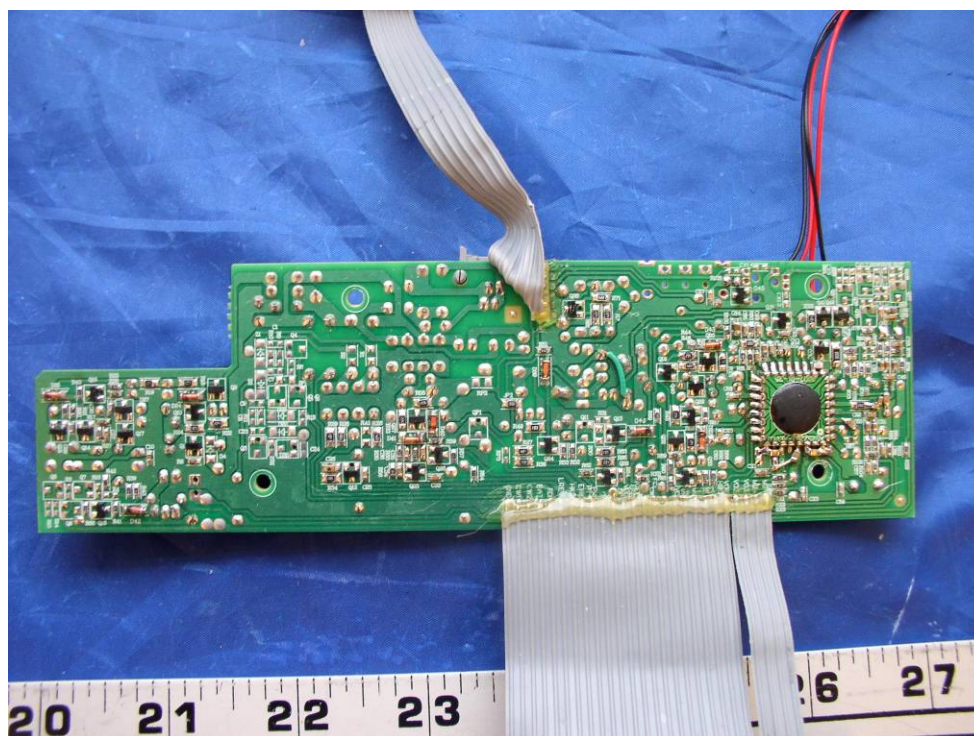
13.3 EUT Bottom View



13.4 EUT Power Board Component View



13.5 EUT Power Board Solder View



END REPORT